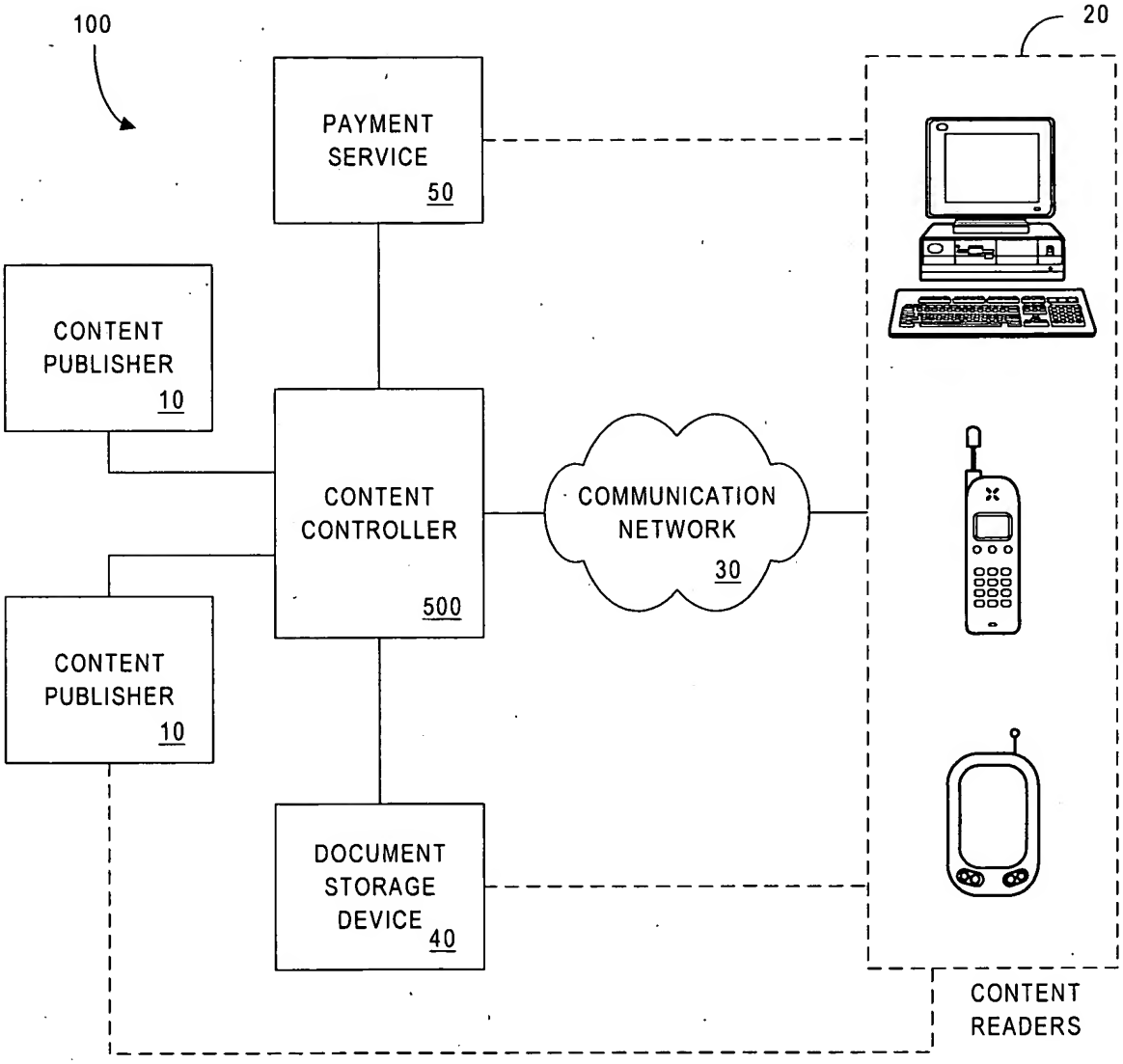
100
20
PAYMENT SERVICE 50
CONTENT PUBLISHER 10
CONTENT CONTROLLER 500
COMMUNICATION NETWORK 30
CONTENT PUBLISHER 10
DOCUMENT STORAGE DEVICE 40
CONTENT READERS

FIG. 1

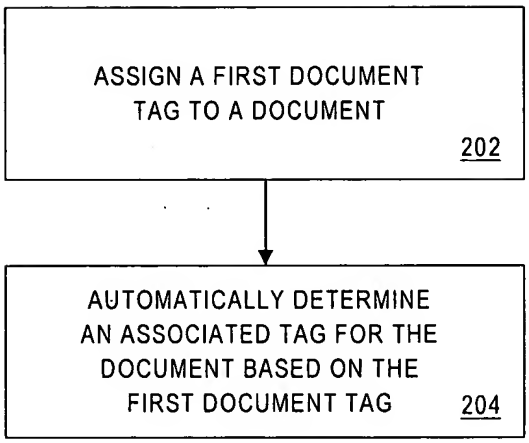
ASSIGN A FIRST DOCUMENT TAG TO A DOCUMENT
202
AUTOMATICALLY DETERMINE AN ASSOCIATED TAG FOR THE DOCUMENT BASED ON THE FIRST DOCUMENT TAG
204

FIG. 2

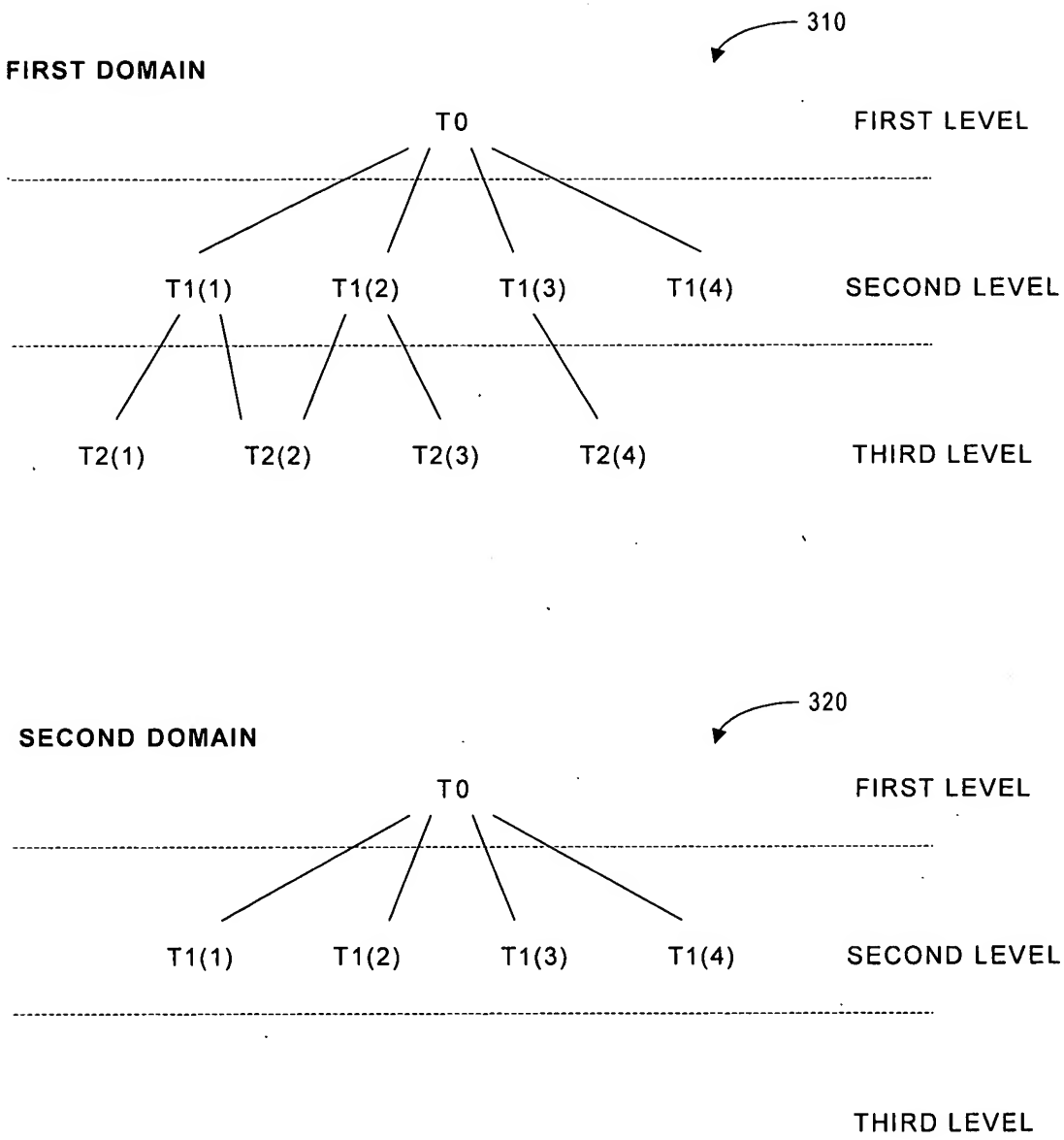
310
FIRST DOMAIN
T0
FIRST LEVEL
T1(1)
T1(2)
T1(3)
T1(4)
SECOND LEVEL
T2(1)
T2(2)
T2(3)
T2(4)
THIRD LEVEL
320
SECOND DOMAIN
T0
FIRST LEVEL
T1(1)
T1(2)
T1(3)
T1(4)
SECOND LEVEL
THIRD LEVEL

FIG. 3

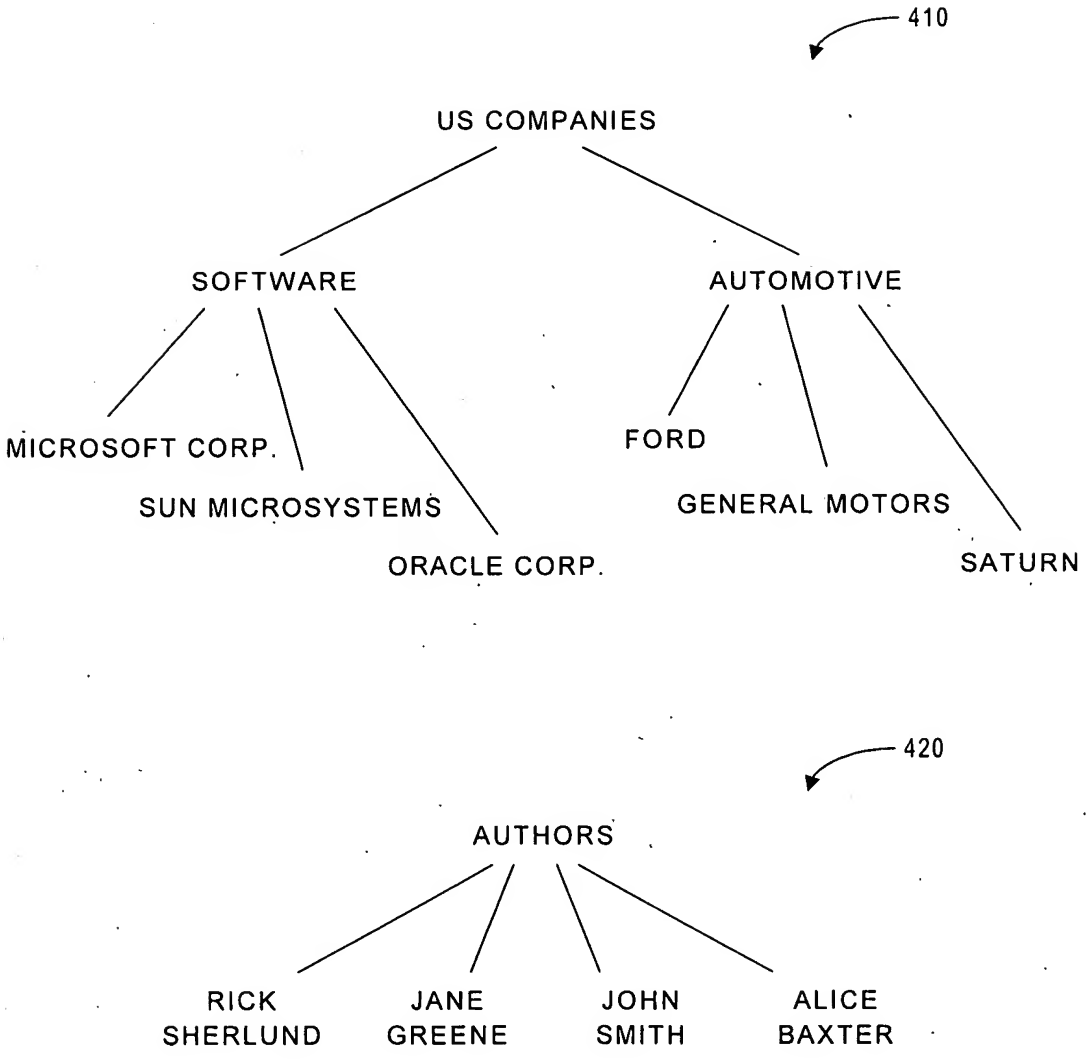
410
US COMPANIES
SOFTWARE
AUTOMOTIVE
MICROSOFT CORP.
SUN MICROSYSTEMS
ORACLE CORP.
FORD
GENERAL MOTORS
SATURN
420
AUTHORS
RICK SHERLUND
JANE GREENE
JOHN SMITH
ALICE BAXTER

FIG. 4

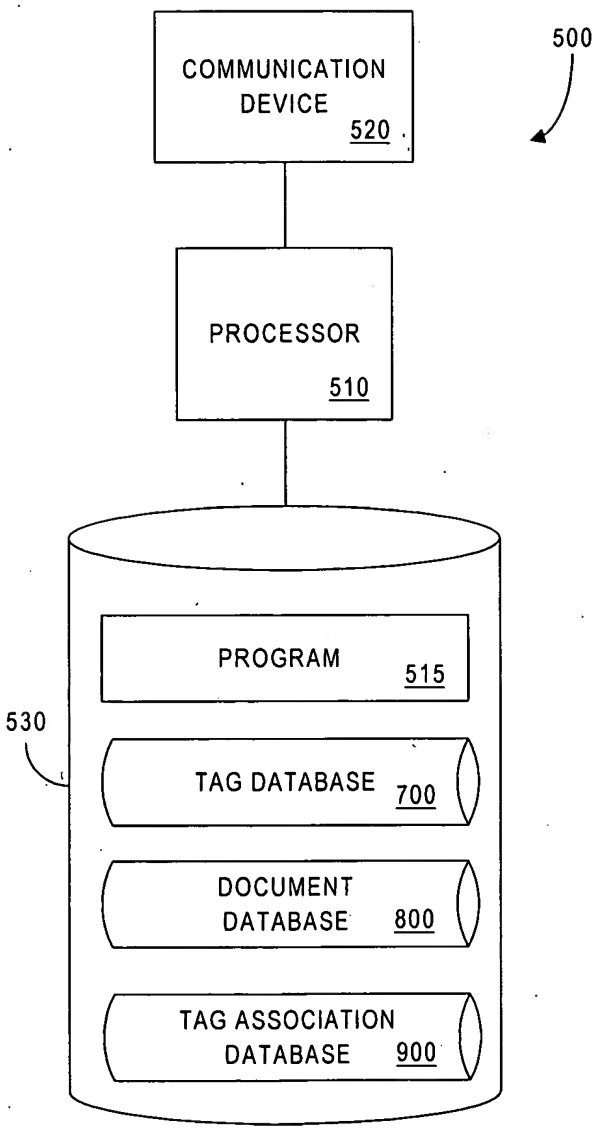
500
COMMUNICATION DEVICE 520
PROCESSOR 510
530
PROGRAM 515
TAG DATABASE 700
DOCUMENT DATABASE 800
TAG ASSOCIATION DATABASE 900

FIG. 5

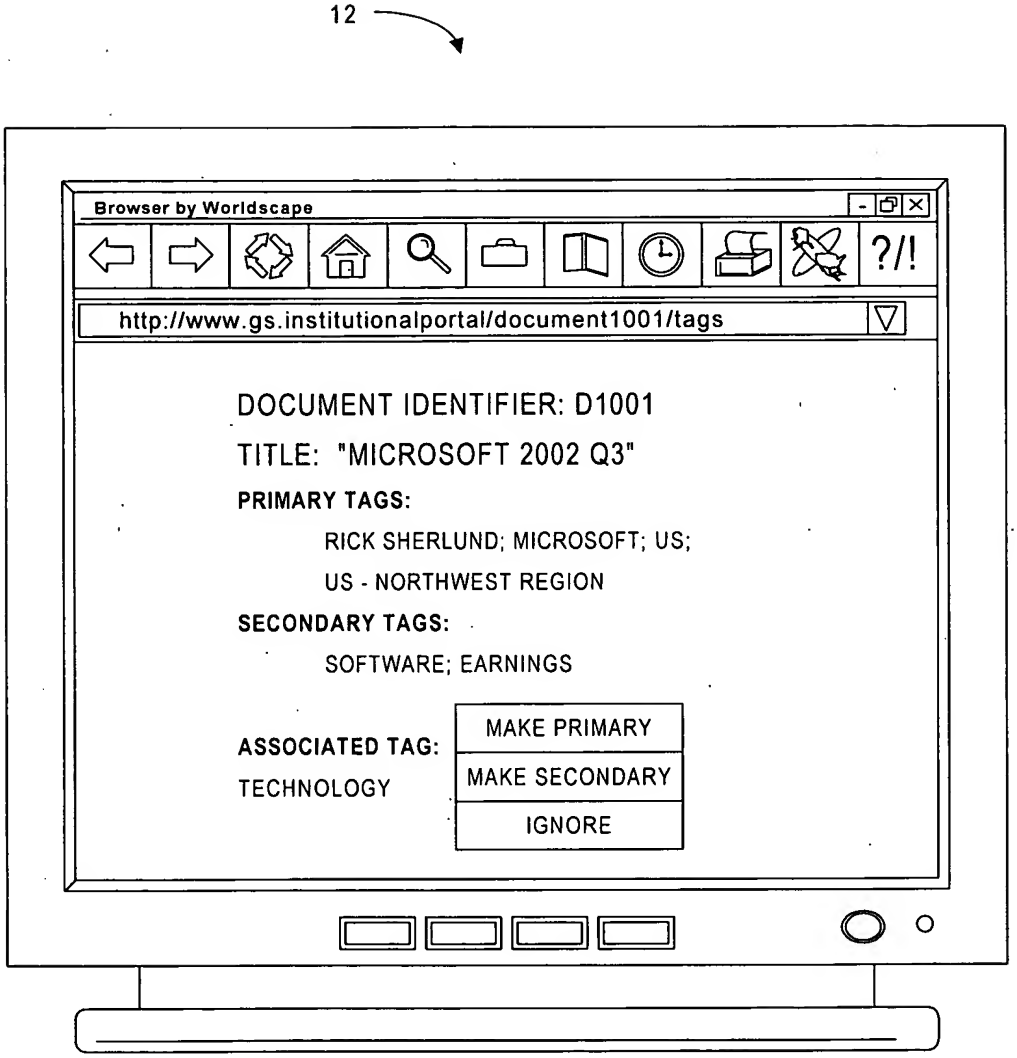
12
Browser by Worldscape
?/!
http://www.gs.institutionalportal/document1001/tags
DOCUMENT IDENTIFIER: D1001
TITLE: "MICROSOFT 2002 Q3"
PRIMARY TAGS:
RICK SHERLUND; MICROSOFT; US;
US - NORTHWEST REGION
SECONDARY TAGS:
SOFTWARE; EARNINGS
ASSOCIATED TAG:
TECHNOLOGY
MAKE PRIMARY
MAKE SECONDARY
IGNORE

FIG. 6

700

TAG IDENTIFIER 702	DESCRIPTION 704	PARENT TAG 706
T-A1(1)	AUTHOR - ANALYST	T-A0
T-A1(2)	AUTHOR - INVESTMENT ADVISOR	T-A0
T-A2(1)	AUTHOR- INVESTMENT ADVISOR - RICK SHERLUND	T-A1(1)
T-A2(2)	AUTHOR - INVESTMENT ADVISOR - JANE GREENE	T-A1(1)
T-I1(1)	INDUSTRY - TECHNOLOGY	T-I0
T-I1(2)	INDUSTRY - AUTOMOTIVE	T-I0
T-I2(1)	INDUSTRY - TECHNOLOGY - SOFTWARE	T-I1(1)
T-C4(7)	COMPANY - US - TECHNOLOGY - SOFTWARE - MICROSOFT	T-C3(2)

FIG. 7

800

DOCUMENT IDENTIFIER 802	DESCRIPTION 804	PRIMARY TAGS 806	SECONDARY TAGS 808
D1001	"MICROSOFT 2002 Q3"	T-A2(1); T-C4(7); T-R2(6); T-R3(2)	T-I2(1); T-T1(4)
D1002	"FORECAST CHART"	T-A43(6); T-T1(5)	NONE
D1003	"KEYNOTE ADDRESS (VIDEO)"	T-A31(73)	T-T5(23)

FIG. 8

900

TAG ASSOCIATION IDENTIFIER 902	TAG ASSOCIATION 904
TA1001	IF T-I2(1) IS A PRIMARY OR SECONDARY TAG, THEN T-I1(1) IS AN ASSOCIATED TAG
TA1002	IF T-A2(1) IS A PRIMARY TAG, THEN T-C4(7) IS AN ASSOCIATED TAG
TA1003	IF T-C4(7) IS A PRIMARY TAG, THEN T-A2(1) IS AN ASSOCIATED TAG

FIG. 9

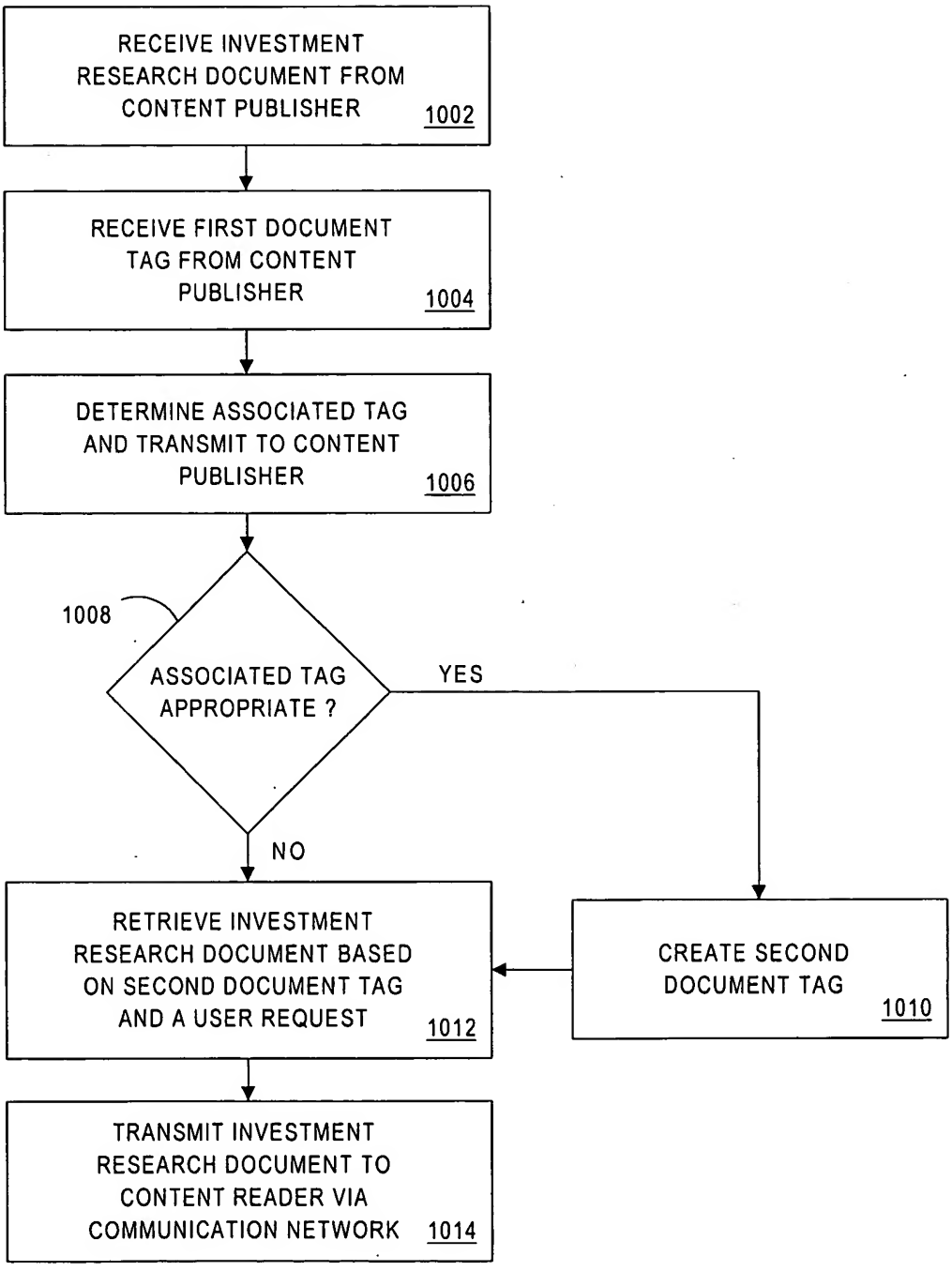
RECEIVE INVESTMENT RESEARCH DOCUMENT FROM CONTENT PUBLISHER
1002
RECEIVE FIRST DOCUMENT TAG FROM CONTENT PUBLISHER
1004
DETERMINE ASSOCIATED TAG AND TRANSMIT TO CONTENT PUBLISHER
1006
1008
ASSOCIATED TAG APPROPRIATE ?
YES
NO
CREATE SECOND DOCUMENT TAG
1010
RETRIEVE INVESTMENT RESEARCH DOCUMENT BASED ON SECOND DOCUMENT TAG AND A USER REQUEST
1012
TRANSMIT INVESTMENT RESEARCH DOCUMENT TO CONTENT READER VIA COMMUNICATION NETWORK
1014

FIG. 10

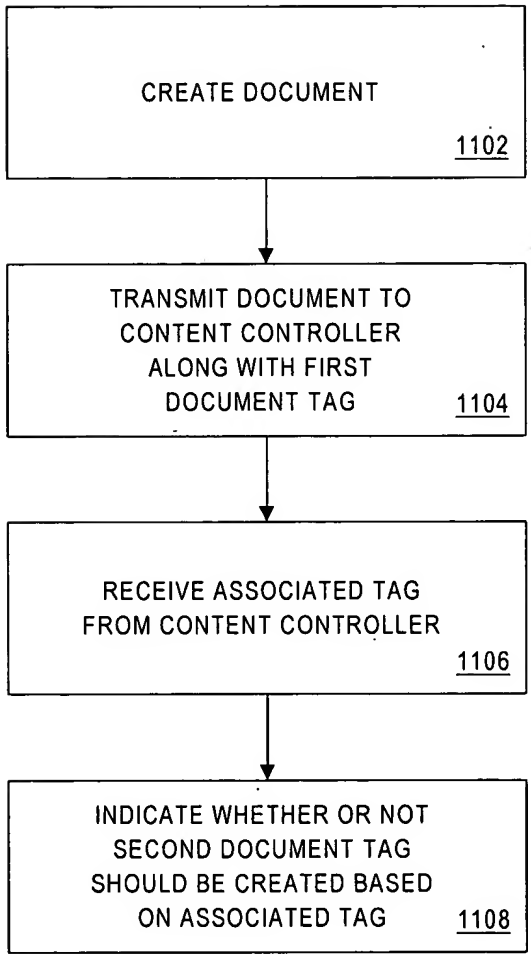
CREATE DOCUMENT
1102
TRANSMIT DOCUMENT TO CONTENT CONTROLLER ALONG WITH FIRST DOCUMENT TAG
1104
RECEIVE ASSOCIATED TAG FROM CONTENT CONTROLLER
1106
INDICATE WHETHER OR NOT SECOND DOCUMENT TAG SHOULD BE CREATED BASED ON ASSOCIATED TAG
1108

FIG. 11

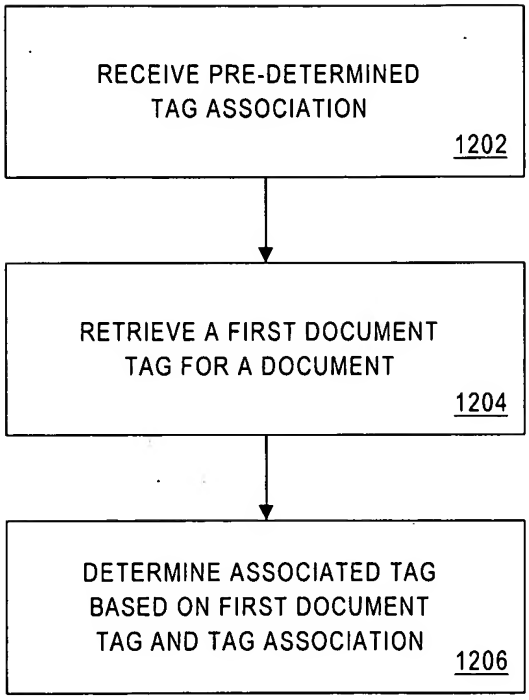
RECEIVE PRE-DETERMINED TAG ASSOCIATION
1202
RETRIEVE A FIRST DOCUMENT TAG FOR A DOCUMENT
1204
DETERMINE ASSOCIATED TAG BASED ON FIRST DOCUMENT TAG AND TAG ASSOCIATION
1206

FIG. 12

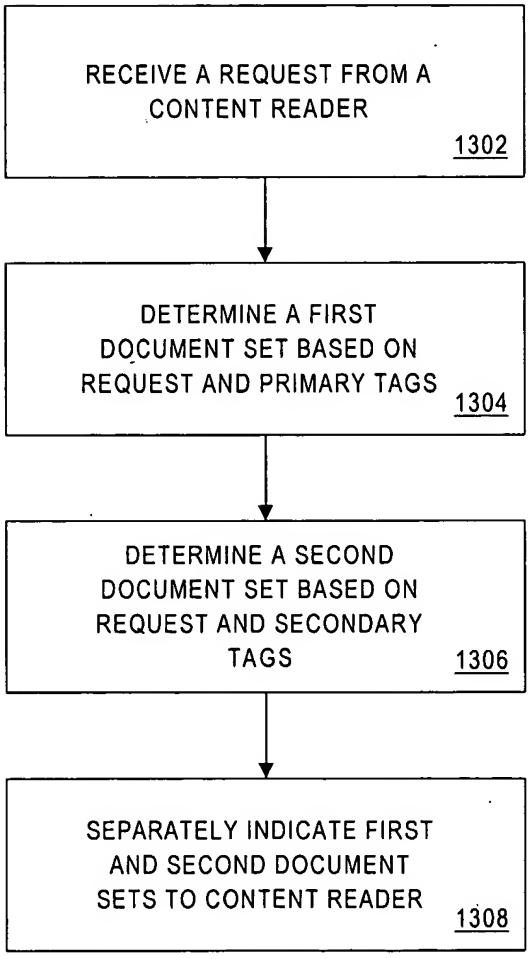
RECEIVE A REQUEST FROM A CONTENT READER
1302
DETERMINE A FIRST DOCUMENT SET BASED ON REQUEST AND PRIMARY TAGS
1304
DETERMINE A SECOND DOCUMENT SET BASED ON REQUEST AND SECONDARY TAGS
1306
SEPARATELY INDICATE FIRST AND SECOND DOCUMENT SETS TO CONTENT READER
1308

FIG. 13

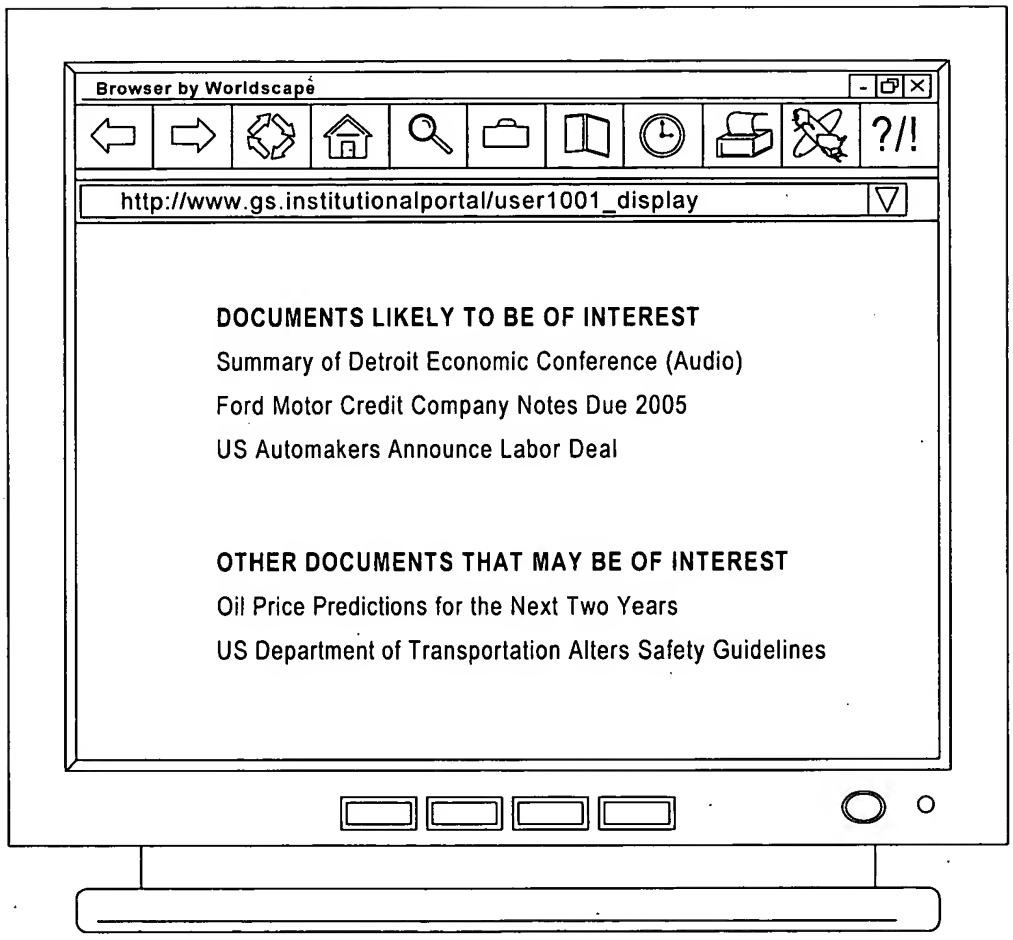
22
Browser by Worldscape
?/!
http://www.gs.institutionalportal/user1001_display
DOCUMENTS LIKELY TO BE OF INTEREST
Summary of Detroit Economic Conference (Audio)
Ford Motor Credit Company Notes Due 2005
US Automakers Announce Labor Deal
OTHER DOCUMENTS THAT MAY BE OF INTEREST
Oil Price Predictions for the Next Two Years
US Department of Transportation Alters Safety Guidelines

FIG. 14